eog resources

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)
Stella Blue 30 Fed Com
#701H
OH

Design: OH

Final PVA

22 August, 2018

eog resources

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3094.0usft (HP 444)
Site:	Stella Blue 30 Fed Com	MD Reference:	KB = 25' @ 3094.0usft (HP 444)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project Eddy County, NM (NAD 83 NME)

Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Stella Blue 30 Fed Com

Site Position:		Northing:	367,075.00 usft	Latitude:	32° 0' 29.333 N
From:	Map	Easting:	699,112.00 usft	Longitude:	103° 49' 27.558 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well #701H

Well Position	+N/-S	0.0 usft	Northing:	367,075.00 usft	Latitude:	32° 0' 29.333 N
	+E/-W	0.0 usft	Easting:	699,112.00 usft	Longitude:	103° 49' 27.558 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,069.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/8/2017	7.08	59.83	47,813.65060722

Design OH

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	358.32

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Survey Program — Date 8/22/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
158.0	1,046.0	Cartel 41 MWD (OH)	MWD	OWSG MWD - Standard
1,148.0	14,610.0	Phoenix MWD #1 (OH)	MWD	OWSG MWD - Standard
14,709.0	21,078.0	Total MWD (OH)	MWD	OWSG MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
158.0	0.33	263.23	158.0	-0.1	-0.5	0.21	0.21	0.00	-0.5	0.0
317.0	1.10	224.82	317.0	-1.2	-2.0	0.54	0.48	-24.16	-2.2	-0.6
476.0	0.97	260.77	476.0	-2.5	-4.4	0.41	-0.08	22.61	-4.7	1.8
634.0	0.59	258.84	633.9	-2.9	-6.5	0.24	-0.24	-1.22	-6.9	1.5
793.0	1.01	267.36	792.9	-3.1	-8.7	0.27	0.26	5.36	-8.8	2.7
951.0	0.88	255.50	950.9	-3.5	-11.3	0.15	-0.08	-7.51	-11.8	0.5
1,046.0	0.70	279.49	1,045.9	-3.5	-12.6	0.39	-0.19	25.25	-11.8	5.6
1,148.0	0.61	285.12	1,147.9	-3.3	-13.7	0.11	-0.09	5.52	-12.4	6.8
1,337.0	3.30	206.40	1,336.8	-7.9	-17.1	1.71	1.42	-41.65	-8.6	-12.7
1,526.0	8.00	191.64	1,524.8	-25.7	-22.2	2.58	2.49	-7.81	-6.1	-14.1
1,714.0	8.55	193.93	1,710.9	-52.0	-28.2	0.34	0.29	1.22	-14.1	-12.1
1,902.0	8.63	194.02	1,896.8	-79.3	-34.9	0.04	0.04	0.05	-22.7	-10.8
2,091.0	8.44	194.23	2,083.7	-106.5	-41.8	0.10	-0.10	0.11	-31.1	-9.6
2,280.0	7.31	192.91	2,270.9	-131.7	-47.9	0.61	-0.60	-0.70	-37.1	-9.0
2,466.0	6.04	184.20	2,455.6	-153.0	-51.2	0.87	-0.68	-4.68	-37.9	-11.8
2,653.0	5.28	181.96	2,641.7	-171.4	-52.3	0.42	-0.41	-1.20	-37.0	-8.4
2,841.0	5.31	188.33	2,828.9	-188.6	-53.8	0.31	0.02	3.39	-35.6	-0.1
3,028.0	4.82	176.87	3,015.2	-205.0	-54.6	0.60	-0.26	-6.13	-32.9	-2.0
3,216.0	4.62	166.57	3,202.5	-220.3	-52.4	0.46	-0.11	-5.48	-30.5	0.9

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Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,387.0	4.69	156.86	3,373.0	-233.4	-48.1	0.46	0.04	-5.68	-30.4	6.2
3,602.0	4.46	156.22	3,587.3	-249.1	-41.3	0.11	-0.11	-0.30	-30.7	20.6
3,773.0	3.56	159.37	3,757.9	-260.2	-36.7	0.54	-0.53	1.84	-27.4	33.6
3,867.0	4.91	175.45	3,851.6	-266.9	-35.4	1.90	1.44	17.11	-14.2	44.6
3,961.0	7.20	183.32	3,945.1	-276.8	-35.4	2.59	2.44	8.37	-4.5	50.1
4,055.0	7.72	184.61	4,038.3	-289.0	-36.2	0.58	0.55	1.37	1.5	54.2
4,149.0	8.87	190.70	4,131.3	-302.4	-38.1	1.54	1.22	6.48	13.3	56.8
4,243.0	12.10	200.90	4,223.7	-318.7	-43.0	3.95	3.44	10.85	25.7	53.7
4,337.0	13.70	209.20	4,315.4	-337.7	-51.9	2.60	1.70	8.83	31.4	47.0
4,431.0	14.40	213.30	4,406.6	-357.2	-63.8	1.29	0.74	4.36	30.7	40.2
4,524.0	14.76	213.09	4,496.6	-376.7	-76.6	0.39	0.39	-0.23	25.8	35.0
4,619.0	14.49	212.58	4,588.5	-396.9	-89.6	0.31	-0.28	-0.54	20.6	30.0
4,713.0	13.42	214.86	4,679.7	-415.8	-102.2	1.28	-1.14	2.43	17.9	23.7
4,807.0	12.82	206.16	4,771.3	-434.1	-113.0	2.19	-0.64	-9.26	12.4	21.5
4,901.0	12.95	204.94	4,862.9	-453.0	-122.0	0.32	0.14	-1.30	10.5	19.0
4,995.0	13.11	204.47	4,954.5	-472.2	-130.9	0.20	0.17	-0.50	8.7	16.6
5,090.0	13.37	204.74	5,047.0	-492.0	-139.9	0.28	0.27	0.28	6.7	14.2
5,184.0	13.23	206.26	5,138.4	-511.5	-149.2	0.40	-0.15	1.62	4.9	11.3
5,278.0	12.84	207.44	5,230.0	-530.5	-158.8	0.50	-0.41	1.26	3.3	8.0
5,371.0	12.78	207.72	5,320.7	-548.7	-168.4	0.09	-0.06	0.30	1.9	4.6
5,465.0	12.66	206.64	5,412.4	-567.1	-177.8	0.28	-0.13	-1.15	0.5	1.3
5,559.0	12.24	209.10	5,504.2	-585.1	-187.3	0.72	-0.45	2.62	-0.4	-2.2
5,653.0	11.65	206.95	5,596.1	-602.2	-196.4	0.79	-0.63	-2.29	-0.3	-5.8
5,747.0	11.86	203.46	5,688.2	-619.5	-204.6	0.79	0.22	-3.71	0.5	-8.4
5,841.0	10.46	198.16	5,780.4	-636.5	-211.1	1.84	-1.49	-5.64	2.8	-9.4
5,935.0	10.15	193.10	5,872.9	-652.7	-215.6	1.02	-0.33	-5.38	6.6	-8.4
6,029.0	9.42	196.42	5,965.5	-668.1	-219.7	0.98	-0.78	3.53	9.2	-7.9

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Well:	#701H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
6,122.0	7.49	204.99	6,057.5	-680.9	-224.4	2.47	-2.08	9.22	9.7	-10.0
6,216.0	4.81	220.40	6,151.0	-689.5	-229.5	3.32	-2.85	16.39	7.8	-15.2
6,310.0	2.53	247.10	6,244.8	-693.3	-234.0	2.97	-2.43	28.40	-0.2	-21.5
6,404.0	1.08	274.89	6,338.7	-694.0	-236.8	1.76	-1.54	29.56	-12.0	-22.3
6,497.0	0.50	311.40	6,431.7	-693.7	-238.0	0.80	-0.62	39.26	-24.3	-11.0
6,590.0	0.53	273.08	6,524.7	-693.4	-238.7	0.36	0.03	-41.20	-13.0	-23.9
6,684.0	0.84	146.22	6,618.7	-693.9	-238.8	1.31	0.33	-134.96	26.5	3.6
6,778.0	1.14	142.06	6,712.7	-695.3	-237.8	0.33	0.32	-4.43	24.6	5.5
6,871.0	0.97	153.88	6,805.7	-696.7	-236.9	0.30	-0.18	12.71	23.5	0.5
6,964.0	1.00	136.74	6,898.7	-698.0	-236.0	0.32	0.03	-18.43	20.7	7.2
7,058.0	0.89	142.43	6,992.6	-699.2	-235.0	0.15	-0.12	6.05	19.8	5.2
7,245.0	1.21	156.56	7,179.6	-702.1	-233.3	0.22	0.17	7.56	17.1	0.5
7,433.0	1.47	151.60	7,367.6	-706.1	-231.4	0.15	0.14	-2.64	12.6	1.8
7,621.0	1.52	177.91	7,555.5	-710.7	-230.1	0.36	0.03	13.99	7.4	-2.9
7,809.0	1.60	181.01	7,743.4	-715.8	-230.1	0.06	0.04	1.65	2.1	-3.1
7,997.0	1.49	222.40	7,931.4	-720.2	-231.8	0.58	-0.06	22.02	-4.9	-2.0
8,185.0	0.62	277.16	8,119.3	-721.9	-234.4	0.66	-0.46	29.13	-6.9	4.8
8,372.0	0.60	325.46	8,306.3	-721.0	-236.0	0.27	-0.01	25.83	-2.6	9.1
8,559.0	1.20	248.78	8,493.3	-720.9	-238.4	0.65	0.32	-41.01	-11.6	-1.4
8,747.0	2.04	220.72	8,681.2	-724.1	-242.4	0.60	0.45	-14.93	-14.7	-7.7
8,934.0	1.51	246.67	8,868.2	-727.6	-246.8	0.51	-0.28	13.88	-22.0	1.0
9,121.0	1.13	297.69	9,055.1	-727.7	-250.7	0.64	-0.20	27.28	-16.5	19.7
9,309.0	0.29	350.86	9,243.1	-726.4	-252.4	0.52	-0.45	28.28	4.3	26.4
9,496.0	1.05	181.47	9,430.1	-727.7	-252.6	0.71	0.41	-90.58	-10.3	-25.3
9,685.0	1.59	195.13	9,619.0	-731.9	-253.3	0.33	0.29	7.23	-20.3	-21.7
9,872.0	1.89	186.52	9,805.9	-737.5	-254.3	0.21	0.16	-4.60	-22.5	-24.9
10,061.0	2.81	178.95	9,994.8	-745.2	-254.6	0.51	0.49	-4.01	-26.7	-28.1

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Survey

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10,156.0	2.71	212.35	10,089.7	-749.4	-255.7	1.67	-0.11	35.16	-41.9	-7.5
10,343.0	1.96	246.73	10,276.5	-754.4	-261.0	0.83	-0.40	18.39	-45.7	20.0
10,441.0	1.50	269.51	10,374.5	-755.1	-263.9	0.84	-0.47	23.24	-37.2	36.8
10,554.0	5.80	338.82	10,487.3	-749.8	-267.4	4.83	3.81	61.34	15.0	49.2
10,647.0	17.64	353.23	10,578.2	-731.4	-270.8	13.02	12.73	15.49	7.7	45.1
10,740.0	17.82	2.54	10,666.8	-703.1	-271.8	3.05	0.19	10.01	-12.3	45.6
10,828.4	17.19	5.57	10,751.1	-676.6	-269.9	1.25	-0.71	3.42	-36.0	47.6
KOP (Stella Blue 30 FC 701H)										
10,833.0	17.16	5.73	10,755.5	-675.3	-269.8	1.25	-0.68	3.55	-37.2	47.7
10,927.0	16.43	7.62	10,845.5	-648.3	-266.7	0.97	-0.78	2.01	-57.2	47.7
11,020.0	15.31	8.77	10,934.9	-623.1	-263.0	1.25	-1.20	1.24	-59.0	44.9
11,067.0	14.95	9.06	10,980.3	-611.0	-261.1	0.78	-0.77	0.62	-53.0	42.5
11,113.0	19.31	7.97	11,024.2	-597.6	-259.2	9.50	9.48	-2.37	-45.8	38.1
11,160.0	27.83	4.60	11,067.3	-578.9	-257.2	18.35	18.13	-7.17	-40.8	32.6
11,207.0	34.21	7.47	11,107.5	-554.9	-254.6	13.93	13.57	6.11	-34.6	30.6
11,254.0	38.34	7.83	11,145.4	-527.3	-250.9	8.80	8.79	0.77	-29.8	26.2
11,301.0	45.37	6.84	11,180.4	-496.2	-246.9	15.02	14.96	-2.11	-26.0	20.9
11,348.0	50.51	5.04	11,211.9	-461.5	-243.3	11.30	10.94	-3.83	-23.0	16.2
11,378.2	53.16	3.00	11,230.6	-437.9	-241.7	10.26	8.78	-6.75	-21.0	13.8
HL Crossing, MD:11378.2', TVD:11230.6', N/S:-437.9', E/W:-241.7', INC:53.16										
11,394.0	54.56	1.99	11,239.9	-425.1	-241.1	10.26	8.86	-6.40	-19.8	13.0
11,435.5	59.10	359.94	11,262.6	-390.4	-240.5	11.69	10.93	-4.95	-16.5	11.8
FTP (Stella Blue 30 FC 701H)										
11,441.0	59.70	359.68	11,265.4	-385.7	-240.6	11.69	10.97	-4.67	-16.0	11.8
11,487.0	68.04	0.22	11,285.6	-344.4	-240.6	18.16	18.13	1.17	-13.7	11.6
11,534.0	72.87	359.82	11,301.3	-300.1	-240.6	10.31	10.28	-0.85	-12.8	11.3
11,581.0	75.25	0.23	11,314.2	-254.9	-240.6	5.13	5.06	0.87	-10.9	11.1

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11,628.0	77.47	1.42	11,325.3	-209.3	-239.9	5.33	4.72	2.53	-7.0	10.2
11,675.0	79.98	2.30	11,334.5	-163.2	-238.4	5.65	5.34	1.87	-1.2	8.4
11,769.0	91.79	1.89	11,341.2	-69.7	-235.0	12.57	12.56	-0.44	6.1	4.5
11,891.0	91.96	2.39	11,337.3	52.2	-230.4	0.43	0.14	0.41	3.6	-0.7
11,984.0	90.73	0.49	11,335.1	145.1	-228.1	2.43	-1.32	-2.04	2.5	-3.6
12,078.0	90.53	359.50	11,334.0	239.1	-228.1	1.07	-0.21	-1.05	2.6	-4.1
12,171.0	89.72	358.93	11,333.8	332.1	-229.4	1.07	-0.87	-0.61	3.6	-3.3
12,265.0	90.22	359.76	11,333.9	426.1	-230.4	1.03	0.53	0.88	4.7	-2.7
12,359.0	90.92	359.49	11,333.0	520.1	-231.1	0.80	0.74	-0.29	5.0	-2.6
12,452.0	91.34	359.70	11,331.1	613.1	-231.7	0.50	0.45	0.23	4.3	-2.5
12,522.4	91.07	359.47	11,329.6	683.5	-232.2	0.51	-0.38	-0.33	3.6	-2.3
TGT #1 (Stella Blue 30 FC 701H)										
12,546.0	90.98	359.39	11,329.2	707.0	-232.5	0.51	-0.38	-0.33	3.4	-2.2
12,639.0	92.27	359.53	11,326.6	800.0	-233.3	1.40	1.39	0.15	1.7	-1.9
12,733.0	92.63	358.68	11,322.6	893.9	-234.8	0.98	0.38	-0.90	-1.5	-0.9
12,828.0	90.28	358.91	11,320.1	988.8	-236.8	2.49	-2.47	0.24	-3.0	0.6
12,922.0	90.31	358.26	11,319.7	1,082.8	-239.1	0.69	0.03	-0.69	-2.6	2.4
13,016.0	90.53	358.48	11,319.0	1,176.8	-241.8	0.33	0.23	0.23	-2.4	4.6
13,110.0	91.29	356.81	11,317.5	1,270.7	-245.7	1.95	0.81	-1.78	-3.0	7.9
13,203.0	90.53	359.36	11,316.0	1,363.6	-248.8	2.86	-0.82	2.74	-3.6	10.5
13,297.0	92.04	2.42	11,313.9	1,457.6	-247.3	3.63	1.61	3.26	-4.9	8.6
13,391.0	90.06	3.36	11,312.2	1,551.4	-242.6	2.33	-2.11	1.00	-5.7	3.3
13,485.0	87.30	2.30	11,314.3	1,645.3	-237.9	3.15	-2.94	-1.13	-2.7	-1.8
13,578.0	88.38	2.70	11,317.8	1,738.1	-233.9	1.24	1.16	0.43	1.7	-6.4
13,594.2	88.48	2.84	11,318.3	1,754.3	-233.1	1.10	0.65	0.89	2.3	-7.2
TGT #2 (Stella Blue 30 FC 701H)										
13,672.0	88.99	3.54	11,320.0	1,831.9	-228.8	1.10	0.65	0.89	5.0	-12.0

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3094.0usft (HP 444)
Site:	Stella Blue 30 Fed Com	MD Reference:	KB = 25' @ 3094.0usft (HP 444)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,766.0	86.95	2.42	11,323.3	1,925.7	-223.9	2.48	-2.17	-1.19	9.5	-17.4
13,859.0	87.96	0.58	11,327.5	2,018.6	-221.4	2.26	1.09	-1.98	14.9	-20.3
13,953.0	88.96	358.51	11,330.0	2,112.6	-222.2	2.44	1.06	-2.20	18.7	-20.1
14,046.0	88.77	358.87	11,331.8	2,205.5	-224.3	0.44	-0.20	0.39	21.8	-18.5
14,140.0	90.09	358.12	11,332.8	2,299.5	-226.8	1.62	1.40	-0.80	24.0	-16.5
14,234.0	89.02	357.85	11,333.5	2,393.4	-230.1	1.17	-1.14	-0.29	26.0	-13.7
14,329.0	89.78	355.29	11,334.5	2,488.2	-235.8	2.81	0.80	-2.69	28.2	-8.5
14,423.0	89.64	355.51	11,335.0	2,581.9	-243.3	0.28	-0.15	0.23	30.0	-1.5
14,516.0	88.57	354.72	11,336.4	2,674.6	-251.2	1.43	-1.15	-0.85	32.7	5.9
14,610.0	85.32	354.42	11,341.4	2,768.0	-260.1	3.47	-3.46	-0.32	38.9	14.3
14,709.0	92.90	356.70	11,343.0	2,866.6	-267.8	7.99	7.66	2.30	41.8	21.4
14,803.0	95.00	1.60	11,336.5	2,960.4	-269.2	5.66	2.23	5.21	36.5	22.4
14,898.0	94.30	1.90	11,328.8	3,055.0	-266.3	0.80	-0.74	0.32	30.1	19.0
14,991.0	93.60	0.10	11,322.4	3,147.8	-264.7	2.07	-0.75	-1.94	24.9	16.8
15,085.0	92.50	0.80	11,317.4	3,241.6	-263.9	1.39	-1.17	0.74	21.2	15.6
15,179.0	91.00	1.40	11,314.5	3,335.6	-262.1	1.72	-1.60	0.64	19.6	13.2
15,273.0	90.80	1.80	11,313.0	3,429.5	-259.5	0.48	-0.21	0.43	19.3	10.1
15,368.0	85.70	0.90	11,315.9	3,524.4	-257.3	5.45	-5.37	-0.95	23.5	7.4
15,461.0	91.50	3.80	11,318.2	3,617.3	-253.4	6.97	6.24	3.12	27.0	3.1
15,550.7	91.88	2.75	11,315.6	3,706.8	-248.3	1.24	0.43	-1.17	25.6	-2.5
TGT #3 (Stella Blue 30 FC 701H)										
15,555.0	91.90	2.70	11,315.4	3,711.1	-248.1	1.24	0.43	-1.17	25.5	-2.8
15,649.0	89.90	1.50	11,313.9	3,805.0	-244.7	2.48	-2.13	-1.28	24.5	-6.7
15,743.0	91.00	2.00	11,313.2	3,898.9	-241.8	1.29	1.17	0.53	24.1	-10.1
15,837.0	89.40	359.40	11,312.9	3,992.9	-240.6	3.25	-1.70	-2.77	24.1	-11.8
15,932.0	85.40	357.70	11,317.2	4,087.8	-243.0	4.57	-4.21	-1.79	28.8	-9.9
16,026.0	88.50	359.30	11,322.2	4,181.6	-245.5	3.71	3.30	1.70	34.2	-7.9

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3094.0usft (HP 444)
Site:	Stella Blue 30 Fed Com	MD Reference:	KB = 25' @ 3094.0usft (HP 444)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,120.0	90.70	0.30	11,322.8	4,275.6	-245.8	2.57	2.34	1.06	35.2	-8.1
16,214.0	92.10	1.60	11,320.5	4,369.5	-244.3	2.03	1.49	1.38	33.3	-10.2
16,308.0	89.20	359.40	11,319.5	4,463.5	-243.5	3.87	-3.09	-2.34	32.6	-11.5
16,403.0	87.70	358.50	11,322.0	4,558.5	-245.2	1.84	-1.58	-0.95	35.5	-10.3
16,497.0	89.50	359.70	11,324.3	4,652.4	-246.7	2.30	1.91	1.28	38.2	-9.3
16,592.0	89.80	359.00	11,324.9	4,747.4	-247.7	0.80	0.32	-0.74	39.2	-8.7
16,685.0	84.90	357.30	11,329.2	4,840.2	-250.7	5.58	-5.27	-1.83	43.8	-6.3
16,776.0	83.70	357.40	11,338.3	4,930.7	-254.9	1.32	-1.32	0.11	53.2	-2.6
16,870.0	86.90	2.80	11,346.0	5,024.3	-254.8	6.66	3.40	5.74	61.3	-3.2
16,963.0	90.50	5.10	11,348.1	5,117.0	-248.3	4.59	3.87	2.47	63.8	-10.1
17,056.0	93.40	3.50	11,344.9	5,209.7	-241.4	3.56	3.12	-1.72	61.0	-17.6
17,150.0	95.40	0.30	11,337.7	5,303.4	-238.3	4.01	2.13	-3.40	54.1	-21.3
17,244.0	95.60	357.40	11,328.7	5,396.9	-240.1	3.08	0.21	-3.09	45.5	-19.9
17,338.0	93.50	354.20	11,321.2	5,490.3	-247.0	4.06	-2.23	-3.40	38.4	-13.5
17,432.0	93.60	353.80	11,315.4	5,583.6	-256.8	0.44	0.11	-0.43	33.0	-4.2
17,525.0	95.10	354.00	11,308.3	5,675.9	-266.7	1.63	1.61	0.22	26.3	5.1
17,619.0	91.70	353.30	11,302.8	5,769.1	-277.1	3.69	-3.62	-0.74	21.1	15.0
17,713.0	89.50	356.70	11,301.8	5,862.7	-285.2	4.31	-2.34	3.62	20.5	22.7
17,806.0	88.90	4.40	11,303.1	5,955.6	-284.3	8.30	-0.65	8.28	22.2	21.3
17,900.0	90.60	3.40	11,303.5	6,049.4	-278.0	2.10	1.81	-1.06	22.9	14.4
17,994.0	90.40	2.50	11,302.7	6,143.3	-273.1	0.98	-0.21	-0.96	22.5	9.1
18,051.8	89.60	1.95	11,302.7	6,201.0	-270.9	1.68	-1.38	-0.96	22.7	6.5
TGT #4 (Stella Blue 30 FC 701H)										
18,088.0	89.10	1.60	11,303.1	6,237.2	-269.8	1.68	-1.38	-0.96	23.0	5.2
18,182.0	89.90	1.80	11,303.9	6,331.2	-267.0	0.88	0.85	0.21	23.4	1.9
18,276.0	92.10	2.40	11,302.3	6,425.1	-263.5	2.43	2.34	0.64	21.2	-2.0
18,370.0	92.00	3.10	11,298.9	6,518.9	-259.0	0.75	-0.11	0.74	17.4	-7.0

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3094.0usft (HP 444)
Site:	Stella Blue 30 Fed Com	MD Reference:	KB = 25' @ 3094.0usft (HP 444)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,464.0	92.30	3.30	11,295.4	6,612.7	-253.8	0.38	0.32	0.21	13.4	-12.8
18,558.0	91.00	3.10	11,292.7	6,706.5	-248.5	1.40	-1.38	-0.21	10.2	-18.5
18,652.0	91.20	359.20	11,290.9	6,800.5	-246.6	4.15	0.21	-4.15	7.9	-20.9
18,745.0	89.00	356.90	11,290.7	6,893.4	-249.8	3.42	-2.37	-2.47	7.2	-18.3
18,839.0	87.60	355.60	11,293.5	6,987.1	-256.0	2.03	-1.49	-1.38	9.5	-12.6
18,933.0	87.90	356.50	11,297.2	7,080.9	-262.4	1.01	0.32	0.96	12.7	-6.6
19,028.0	90.60	359.50	11,298.4	7,175.8	-265.7	4.25	2.84	3.16	13.5	-3.9
19,122.0	91.70	0.10	11,296.5	7,269.7	-266.1	1.33	1.17	0.64	11.1	-4.0
19,215.0	94.20	1.20	11,291.8	7,362.6	-265.0	2.94	2.69	1.18	5.8	-5.6
19,310.0	88.40	358.30	11,289.6	7,457.5	-265.4	6.82	-6.11	-3.05	3.2	-5.7
19,403.0	85.10	355.70	11,294.9	7,550.2	-270.3	4.51	-3.55	-2.80	7.9	-1.3
19,497.0	86.40	357.30	11,301.8	7,643.8	-276.0	2.19	1.38	1.70	14.4	3.9
19,591.0	89.60	1.80	11,305.1	7,737.7	-276.7	5.87	3.40	4.79	17.2	4.1
19,684.0	94.20	2.40	11,302.0	7,830.6	-273.3	4.99	4.95	0.65	13.6	0.2
19,778.0	90.60	1.60	11,298.1	7,924.4	-270.1	3.92	-3.83	-0.85	9.2	-3.6
19,872.0	89.90	0.60	11,297.7	8,018.4	-268.3	1.30	-0.74	-1.06	8.3	-5.9
19,966.0	88.60	0.60	11,298.9	8,112.4	-267.3	1.38	-1.38	0.00	9.1	-7.4
19,991.8	88.49	0.30	11,299.6	8,138.1	-267.1	1.24	-0.43	-1.17	9.6	-7.7
TGT #5 (Stella Blue 30 FC 701H)										
20,060.0	88.20	359.50	11,301.5	8,206.3	-267.2	1.24	-0.43	-1.17	10.9	-8.0
20,153.0	90.30	359.00	11,302.8	8,299.3	-268.4	2.32	2.26	-0.54	11.1	-7.3
20,247.0	87.30	356.30	11,304.7	8,393.2	-272.3	4.29	-3.19	-2.87	12.1	-3.9
20,340.0	88.70	356.50	11,308.0	8,485.9	-278.1	1.52	1.51	0.22	14.4	1.4
20,434.0	89.20	356.00	11,309.7	8,579.7	-284.2	0.75	0.53	-0.53	15.1	7.1
20,527.0	87.80	358.40	11,312.1	8,672.6	-288.8	2.99	-1.51	2.58	16.5	11.1
20,621.0	90.80	359.70	11,313.3	8,766.5	-290.3	3.48	3.19	1.38	16.7	12.2
20,715.0	94.20	0.80	11,309.2	8,860.4	-289.9	3.80	3.62	1.17	11.6	11.3

eog resources

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3094.0usft (HP 444)
Site:	Stella Blue 30 Fed Com	MD Reference:	KB = 25' @ 3094.0usft (HP 444)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
20,809.0	92.30	1.60	11,303.9	8,954.3	-288.0	2.19	-2.02	0.85	5.3	8.8
20,902.0	90.50	1.80	11,301.6	9,047.2	-285.2	1.95	-1.94	0.22	2.0	5.5
20,995.0	93.00	359.50	11,298.7	9,140.1	-284.1	3.65	2.69	-2.47	-1.8	4.0
21,025.0	92.90	358.30	11,297.2	9,170.1	-284.7	4.01	-0.33	-4.00	-3.6	4.4
Final MWD Survey (MD=21025.0')										
21,078.0	92.90	358.30	11,294.5	9,223.0	-286.3	0.00	0.00	0.00	-6.9	5.7
Final Projection to Bit (MD=21078.0') - PBHL (Stella Blue 30 FC 701H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
11,378.2	11,230.6	-437.9	-241.7	HL Crossing, MD:11378.2', TVD:11230.6',N/S:-437.9', E/W:-241.7', INC:53.16
21,025.0	11,297.2	9,170.1	-284.7	Final MWD Survey (MD=21025.0')
21,078.0	11,294.5	9,223.0	-286.3	Final Projection to Bit (MD=21078.0')

Checked By: _____ Approved By: _____ Date: _____

eog resources

Eddy County, NM (NAD 83 NME)

Stella Blue 30 Fed Com #701H

HP 444

Plan #4

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

Azimuths to Grid North
True North: -0.27°
Magnetic North: 6.81°

Magnetic Field
Strength: 47813.7snT
Dip Angle: 59.83°
Date: 3/8/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.82°
To convert a Magnetic Direction to a True Direction, Add 7.08° East
To convert a True Direction to a Grid Direction, Subtract 0.27°

WELL DETAILS: #701H

Ground Level: 3069.0
KB = 25' @ 3094.0usft (HP 444)

Northing	Easting	Latitude	Longitude
367075.00	699112.00	32° 0' 29.333 N	103° 49' 27.558 W

SECTION DETAILS

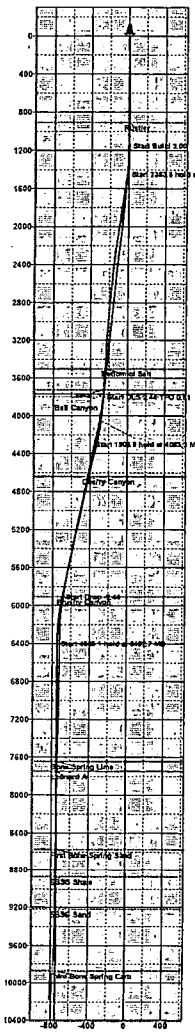
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1150.0	0.00	0.00	1150.0	0.0	0.0	0.00	0.00	0.0	
3	1450.0	6.00	197.54	1449.5	-15.0	-4.7	2.00	197.54	-14.8	
4	3813.5	6.00	197.54	3800.0	-250.5	-79.2	0.00	0.00	-248.1	
5	4063.3	12.10	197.55	4046.5	-288.0	-91.0	2.44	0.01	-285.2	
6	5967.0	12.10	197.55	5908.0	-668.3	-211.3	0.00	0.00	-661.8	
7	6462.7	0.00	0.00	6400.0	-718.0	-227.0	2.44	180.00	-711.0	
8	10825.8	0.00	0.00	10763.1	-718.0	-227.0	0.00	0.00	-711.0	KOP (Stella Blue 30 FC 701H)
9	11732.7	90.70	359.69	11336.0	-138.1	-230.1	10.00	359.69	-131.3	
10	12554.3	90.70	359.69	11326.0	683.4	-234.6	0.00	0.00	690.0	TGT #1 (Stella Blue 30 FC 701H)
11	12558.3	90.53	359.69	11326.0	687.4	-234.6	4.06	-180.00	694.0	
12	13625.6	90.53	359.69	11316.0	1754.7	-240.3	0.00	0.00	1761.0	TGT #2 (Stella Blue 30 FC 701H)
13	13636.8	90.76	359.69	11315.9	1765.8	-240.4	2.06	0.00	1772.1	
14	15577.3	90.76	359.69	11290.0	3706.2	-250.9	0.00	0.00	3712.0	TGT #3 (Stella Blue 30 FC 701H)
15	15604.2	90.23	359.69	11289.8	3733.1	-251.0	2.00	180.00	3738.8	
16	18072.1	90.23	359.69	11280.0	6200.9	-264.3	0.00	0.00	6206.0	TGT #4 (Stella Blue 30 FC 701H)
17	18098.4	89.70	359.69	11280.0	6227.2	-264.5	2.00	180.00	6232.3	
18	20009.7	89.70	359.69	11290.0	8138.4	-274.8	0.00	0.00	8143.0	TGT #5 (Stella Blue 30 FC 701H)
19	20024.9	89.40	359.69	11290.1	8153.6	-274.9	2.00	-180.00	8158.2	
20	21531.4	89.40	359.69	11306.0	9660.0	-283.0	0.00	0.00	9664.1	PBHL (Stella Blue 30 FC 701H)

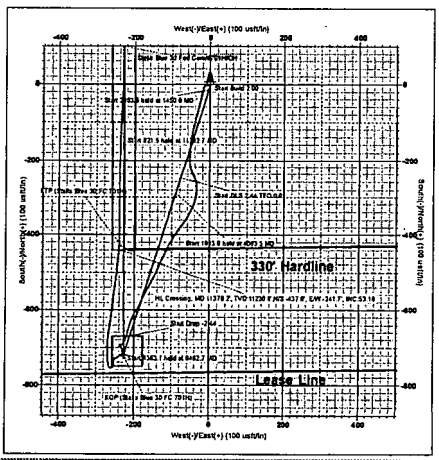
CASING DETAILS

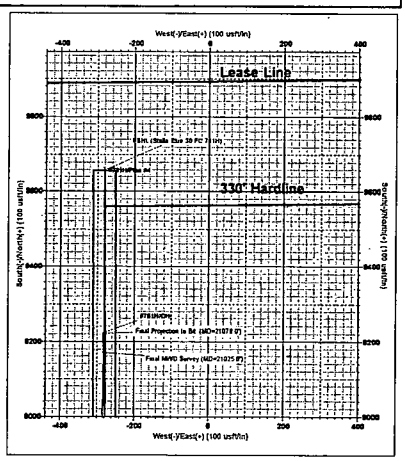
No casing data is available

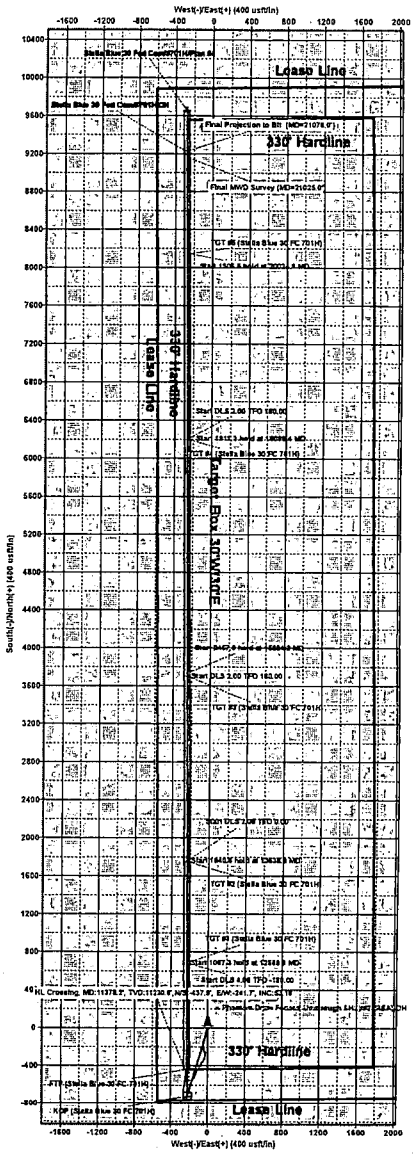
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

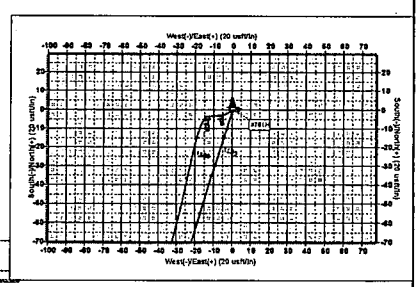
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Stella Blue 30 FC 701H)	10763.1	-718.0	-227.0	366357.00	698885.00
TGT #4 (Stella Blue 30 FC 701H)	11280.0	6200.9	-264.3	373275.90	698847.67
TGT #3 (Stella Blue 30 FC 701H)	11290.0	3706.2	-250.9	370781.20	698861.13
TGT #5 (Stella Blue 30 FC 701H)	11290.0	8138.4	-274.8	375213.40	698837.21
PBHL (Stella Blue 30 FC 701H)	11306.0	9660.0	-283.0	376735.00	698829.00
TGT #2 (Stella Blue 30 FC 701H)	11316.0	1754.7	-240.3	368829.70	698871.66
TGT #1 (Stella Blue 30 FC 701H)	11326.0	683.4	-234.6	367758.40	698877.44
FTP (Stella Blue 30 FC 701H)	11336.0	-438.0	-227.0	366637.00	698885.00

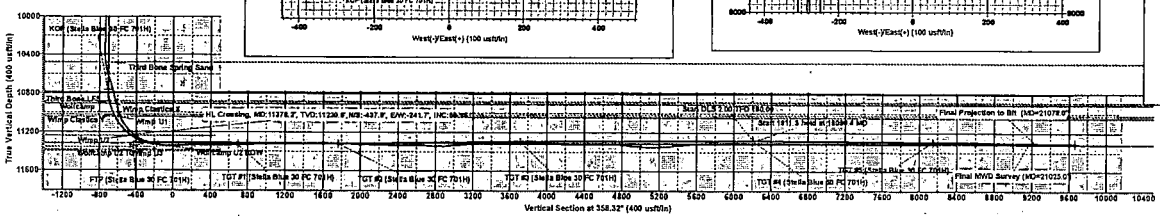


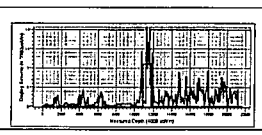












Bureau of Land Management

Carlsbad Field Office

Carlsbad, New Mexico

WATER PRODUCTION & DISPOSAL INFORMATION

Wells: STELLA BLUE FEDERAL COM #701H 30-015-44920
Sec 30, T26S, R31E
Eddy County, NM

1. Name of formations producing water on lease: **WOLFCAMP**

2. Amount of water produced from all formations in barrels per day **6000 - 7000 BWPD**

3. How water is stored on lease **Tanks 2 -400 bbl tanks**

4. How water is moved to disposal facility **Pipeline/Trucked**

5. Disposal Facility:
   a. Facility Operators name **EOG RESOURCES, INC**

   b. Name of facility or well name & number

      Ross Gulch 8 #3 SWD

      30-015-39736

      K - 08 - T26S - R31E

      SWD – 1311-0

   Water also goes to EOG Water gathering system

EOG Resources, Inc.

STELLA BLUE FED COM CTB

M-30-26S-31E

4/15/2019 BKM

LEGEND

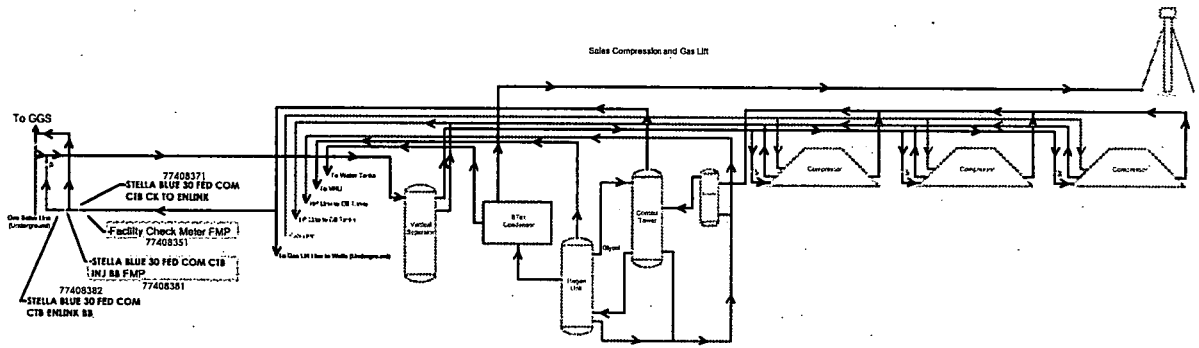
- Valve Open
- Valve Closed
- S Valve Sealed
- Orifice Meter
- Turbine/ Coriolis Meter
- Oil
- Gas
- Water
- Gas to Individual Well Flare Meter

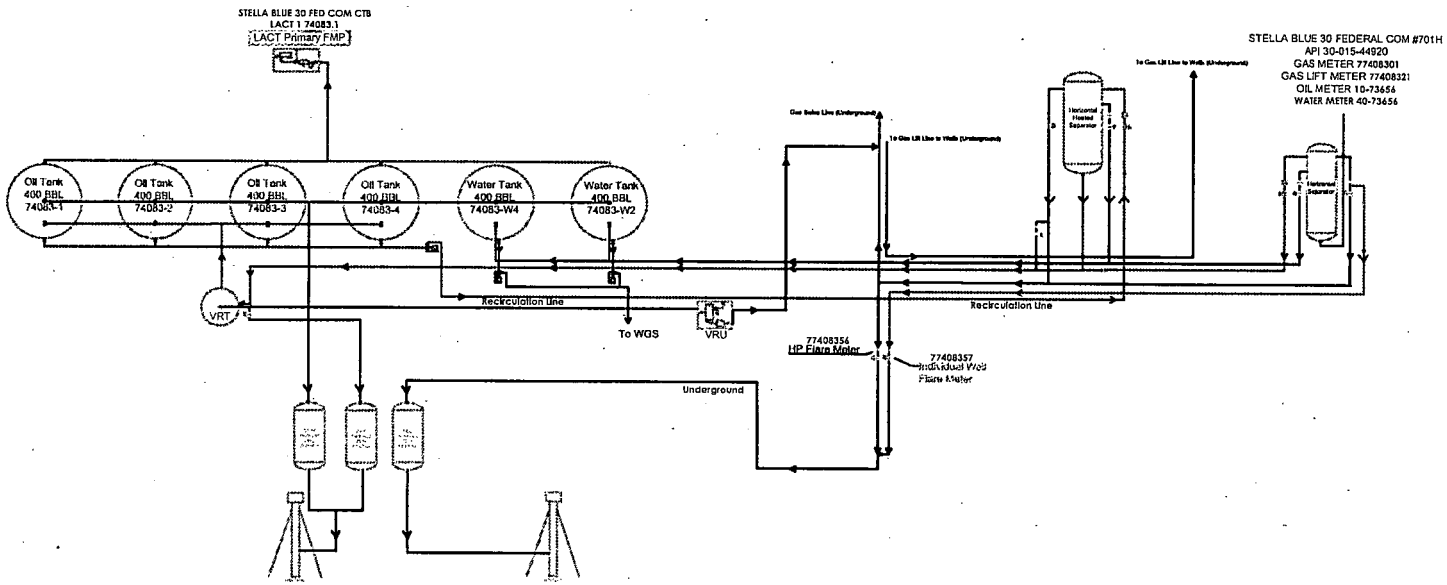
FACILITY DIAGRAM
Shown: Major equipment, vessels, process piping, and valves
Not shown: Auxiliary process systems such as pilot gas system, roll lines, r vent lines, and small drain lines

PRODUCTION PHASE: All valves that provide access to production are effectively sealed in the closed position.

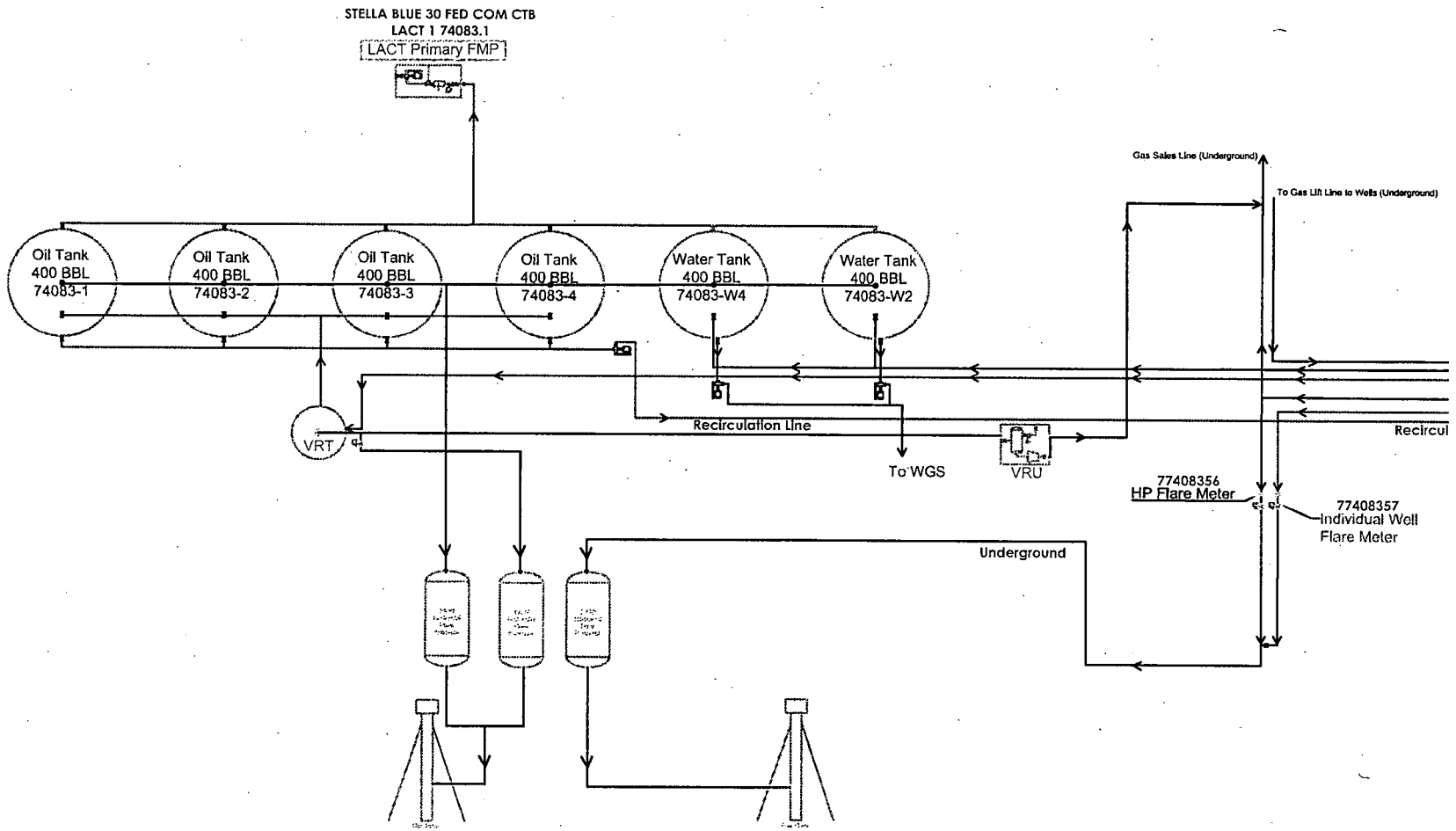
SALES THROUGH LACT UNITS: Sale is measured through LACT units. All other valves that provide access to production (load-out valves) are effectively sealed in the closed position.

WATER TANKS: If the possibility for oil to enter water tanks exists through common recirculating or equalizing lines, oil tanks are isolated from water tanks by valves effectively sealed in the closed position.

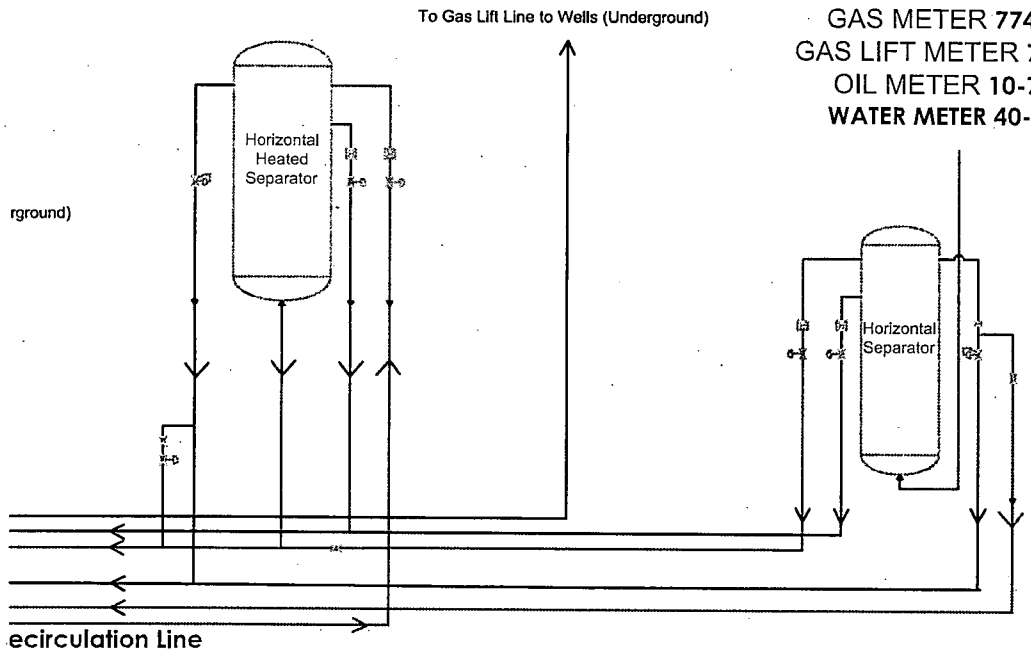




Facility Overview: Please see pages 2 through 4 for details.


STELLA BLUE 30 FED COM CTB
LACT 1 74083.1
LACT Primary FMP
Oil Tank
400 BBL
74083-1
Oil Tank
400 BBL
74083-2
Oil Tank
400 BBL
74083-3
Oil Tank
400 BBL
74083-4
Water Tank
400 BBL
74083-W4
Water Tank
400 BBL
74083-W2
Gas Sales Line (Underground)
To Gas Lift Line to Wells (Underground)
Recirculation Line
Recircul
VRT
To WGS
VRU
77408356
HP Flare Meter
77408357
Individual Well
Flare Meter
Underground

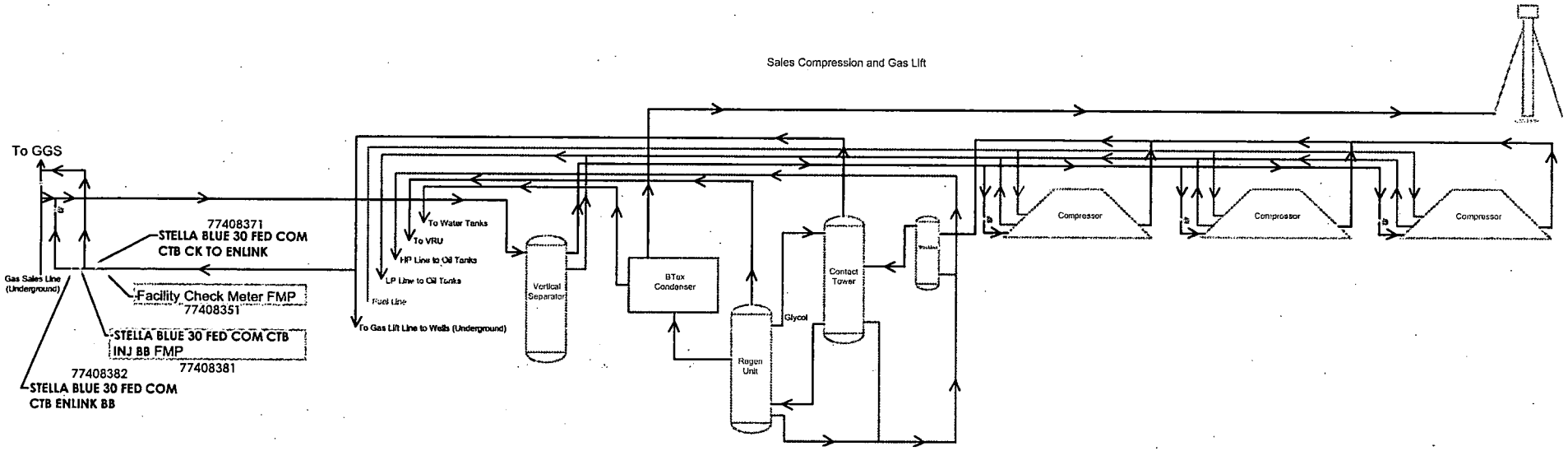
STELLA BLUE 30 FEDERAL COM #701H
API 30-015-44920
GAS METER **77408301**
GAS LIFT METER **77408321**
OIL METER **10-73656**
WATER METER 40-73656



rground)

ecirculation Line

ell


Sales Compression and Gas Lift
To GGS
77408371
STELLA BLUE 30 FED COM
CTB CK TO ENLINK
Gas Sales Line
(Underground)
Facility Check Meter FMP
77408351
STELLA BLUE 30 FED COM CTB
INJ BB FMP
77408381
77408382
STELLA BLUE 30 FED COM
CTB ENLINK BB
To Water Tanks
To VRU
HP Line to Oil Tanks
LP Line to Oil Tanks
Fuel Line
To Gas Lift Line to Wells (Underground)
Vertical
Separator
BTex
Condenser
Regen
Unit
Glycol
Contact
Tower
Compressor
Compressor
Compressor